Table 3.—Maximum free-air wind velocities, (m. p. s.), for different sections of the United States, based on pitot-balloon observations during

Section	Surface to 2,500 meters (m. s. l.)					Above 2,500 to 5,000 meters (m. s. l.)					Above 5,000 meters (m. s. l.)				
	Max. velocity	Direc- tion	Altitude (m.) m. s. l.	Date	Station	Max. velocity	Direc- tion	Altitude (m.) m. s. l.	Date	Station	Max. velocity	Direc- tion	Altitude (m.) m. s. l.	Date	Station
Northeast 1 East Central 3 Southeast 3 North Central 4. Central 4	47. 6 32. 1 52. 2	NW. NW. WNW. NNW. WNW.	2, 080 1, 800 2, 420 1, 610 2, 440	28 11 12 19 11	Hartford, Conn Greensboro, N. C Atlanta, Ga Duluth, Minn Moline, Ill	57. 5 58. 8 39. 8 50. 0 53. 6	WNW. W. WNW. NW. NW.	4, 600 4, 780 4, 960 4, 920 4, 770	5 13 22 11 10	Boston, Mass Norfolk, Va Charleston, S. C Bismarck, N. Dak. Joliet, Ill	64. 8 82. 0 57. 0 65. 0 71. 6	WSW. WSW. WSW. W.		15 15 14 9 28	Philipsburg, Pa. Huntington, W. Va Miami, Fla. Bismarck, N. Dak. Wichita, Kans.
South Central	35. 6	WNW.	2, 100	31	Tulsa, Okla	40.0	sw.	4,360	27	Del Rio, Tex	68.0	w.	{10,060 11,200	30	Big Spring, Tex.
Northwest 7 West Central 8 Southwest 9	35.4	W. NE. E.	2, 480 2, 080 1, 850	9 9	Havre, Mont. Sacramento. Calif. Albuquerque, N. Mex.	54. 0 44. 6 44. 2	NNW. SE. W.	5, 000 3, 520 4, 370	8 16 7	Burns, Oreg Oakland, Calif Raton, N. Mex	84. 6 80. 7 63. 0	NNW. ENE. W.	6, 760 9, 230 10, 280	, 8 9 29	Burns, Oreg. Winnemucca, Nev Las Vegas, Nev.

¹ Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.

2 Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennessee, and North Carolina.

3 South Carolina, Georgia, Florida, and Alabama.

4 Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.

4 Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.

⁸ Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western,

**Bouthern California, southern Nevada, and northern California.
 **Southern California, southern Nevada, Arizona, New Mexico, and extreme west

Table 3.—Maximum free-air wind velocities (m. p. s.) for different sections of the United States, based on pilot-balloon observations during year 1943

	Surface to 2,500 meters (m. s. l.)					Above 2,500 to 5,000 meters (m. s. l.)					Above 5,000 meters (m. s. l.)				
Section	Max. velocity	Direc- tion	Altitude (m) m. s. l.	Date	Station	Max. velocity	Direc- tion	Altitude (m) m. s. l.	Date	Station	Max. velocity	Direc- tion	Altitude (m) m. s. l.	Date	Station
Northeast 1	41. 3 52, 2 62. 0 52. 4 54. 6 60. 8	NW. (NNW. (W. SSW. NW. 8. W.	1, 800 1, 050 1, 610 2, 150 2, 380 1, 380 1, 210 2, 480	Dec. 19 Sept. 7 Mar. 30 Apr. 13	Philipsburg, Pa Greensboro, N. C Spartanburg, S. C } Duluth, Minn Dodge City, Kans Tulsa, Okla Tatoosh Island, Wash. Cheyenne, Wyo Winslow, Ariz	62. 4 58. 0 62. 9 54. 4 55. 3 60. 0 67. 0	W. W. WNW. W. NW. WNW. WNW.	5, 000 4, 960 5, 000 2, 550 5, 000 3, 700 4, 700	Jan. 4 Feb. 14 Mar. 26 Mar. 17 Feb. 6 Jan. 15	Des Moines, Iowa Waco, Tex Burns, Oreg Ely, Nev	82. 0 66. 0 73. 8 75. 2 113. 0 84. 6 80. 7	WSW. W. WNW. WNW.	9, 350 11, 900 12, 420 14, 700 17, 090 6, 760 9, 230	Jan. 29 Dec. 15 Feb. 7 Nov. 20 Jan. 10 Jan. 23 Dec. 8 Dec. 9 Apr. 12	Portland, Maine. Huntington, W. Va. Miami, Fla. Detroit, Mich. Wichita, Kans. Amarillo, Tex. Burns, Oreg. Winnemucca, Nev. El Paso, Tex.

Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.
 Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennessee, and North Carolina.
 South Carolina, Georgia, Florida, and Alabama.
 Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.
 Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.

6 Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western

ennessee.

7 Montans, Idaho, Washington, and Oregon.

8 Wyoming, Colorado, Utah, northern Nevada and northern California.

8 Southern California, southern Nevada, Arizona, New Mexico, and extreme west

RIVER STAGES AND FLOODS

By C. R. JORDAN

PRECIPITATION during December 1943, was below normal over most of the northern and eastern parts of the country except locally in the South Atlantic States. On the Pacific coast normal conditions were completely reversed. Seattle, Wash., with a normal of 5.60 inches, received 1.27 inches, while San Diego, Calif., with a normal of 1.87 had 7.60 inches. Seattle had the driest December of record while the 7.60 inches at San Diego has been exceeded only twice in more than 90 years.

The seasonal snow cover had accumulated at the end. of December to considerable depths in northern New England, in the Adirondacks, northern Michigan, and in the Rocky Mountains and western coastal ranges. Some of the greater depths in the Far West were 30 inches at Cumbres, Colo.; 41 inches at Silver Lake, Utah; 72 inches at Paradise Inn, Wash.; and 31 inches at Huntington Lake. Calif.

Conditions were extremely unfavorable for the maintenance of stream flow and ground-water levels. Stream flow was below normal in more than 80 percent of the

country. December was the fourth consecutive month with no flooding of consequence. The Saluda River just reached flood stage at Pelzer, S. C., on December 27, and the Luckiamute River rose to a stage of 26.4 feet, 1.4 feet above flood stage, at Suver, Oreg., on December 5, as a result of moderately heavy rain along the northern Pacific coast on December 3-4. No damage resulted at either place.

FLOOD-STAGE REPORT FOR DECEMBER 1943

[All dates in December]

River and station	Flood	Above stages	flood dates	Crest			
	stage	From-	То	Stage	Date		
ATLANTIC SLOPE DRAINAGE	Feet			Feet			
Saluda: Pelzer, S. C PACIFIC SLOPE DRAINAGE	6	27	27	6	27		
Columbia Basin Luckiamute: Suver, Oreg	25	4	5	26. 4	5		